## WHAT IS CLAIMED IS:

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1. A DNA segment encoding a mammalian GDF-1 protein, or an epitope specific thereto, or a DNA fragment complementary to said DNA segment.

2. The DNA segment according to claim 1 wherein said GDF-1 protein has the sequence as defined in Figure 2, 1A or 11B.

wherein said mammal is a mouse, hamster or human.

4. A mammalian GDF-1 protein substantially free of proteins with which it is naturally non-covalently associated, or an epitope specific thereto.

- 5. The protein according to claim 4 which is unglycosylated.
- 6. The protein according to claim 4 wherein said mammal is a mouse, hamster or human.
- 7. The protein according to claim 4 wherein said protein is chemically synthesized.
- 8. The protein according to claim 4 wherein said protein has a sequence as defined in Figure 2, 11A or 11B, or functionally equivalent variation thereof.
- 9. A recombinantly produced GDF-1 protein having the amino acid sequence given in Figure 2, 11A or 11B, or functionally equivalent variation thereof.

- The protein according to claim 9 wherein said protein is unglycosylated.
- 11. A recombinant DNA molecule said DNA segment according to claim 37 comprising:

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- i)
- ii) a vector.
- A host cell stably transformed with said recombinant DNA molecule according to claim 11.
- The host cell according to claim 12 wherein said cell is a procaryotic cell.
- The host cell according to claim 12 wherein said cell is a eucaryotic cell.
- A method of producing a recombinant GDF-1 protein, or functionally equivalent variation thereof, comprising culpuring said host cell according to claim 12 under conditions such that said segment is expressed and said GDF-1 protein thereby produced, and isolating said GDF-1 protein.
- A DNA segment encoding a mammalian UOG-1 protein, or an epitope specific thereto, or a DNA fragment complementary to said DNA segment.
- A mammalian UOG-1 protein substantially free of proteins with which it is naturally non-covalently associated, or an epitope specific thereto.
- A recombinantly produced UOG-1 protein having the amino acid sequence given in

Figure 11A or 11B, or functionally equivalent variation therof.

19. A recombinant DNA molecule

i) said DNA segment according to claim

16; and operably listed to

20. A host cell stably transformed with said recombinant DWA molecule according to claim 19.

21. A method of producing a recombinant UOG-1 protein, or functionally equivalent variation thereof, comprising culturing said host cell according to claim 20 under conditions such that said segment is expressed and said UOG-1 protein thereby produced, and isolating said UOG-1 protein.

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